

Applicant : Jianshe Tang, et al.
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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-10. Cancelled.

11. (Previously Presented) A carrier head, comprising:

a retaining ring;

a pressurizable chamber; and

a flexible membrane to press a substrate against a polishing surface, the flexible membrane including an inner surface that forms a boundary of the pressurizable chamber and an outer surface having surface features to increase a friction coefficient of the outer surface, wherein the outer surface is rougher than the inner surface,

wherein the outer surface of the flexible membrane is roughened to increase its friction coefficient.

12. Cancelled.

13. (Previously Presented) A carrier head, comprising:

a retaining ring;

a pressurizable chamber; and

a flexible membrane to press a substrate against a polishing surface, the flexible membrane including an inner surface that forms a boundary of the pressurizable chamber and an outer surface having surface features to increase a friction coefficient of the outer surface, wherein the

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outer surface is rougher than the inner surface,
wherein the features are grooves.

14. (Previously Presented) A carrier head, comprising:
a retaining ring;
a pressurizable chamber; and
a flexible membrane to press a substrate against a polishing surface, the flexible membrane including an inner surface that forms a boundary of the pressurizable chamber and an outer surface having surface features to increase a friction coefficient of the outer surface, wherein the outer surface is rougher than the inner surface,
wherein the features are vias.

15-16. Cancelled.

17. (Previously Presented) A carrier head, comprising:
a retaining ring;
a pressurizable chamber; and
a fluid-tight flexible membrane with an inner surface that forms a boundary of the pressurizable chamber and a rough outer surface to press a substrate against a polishing surface, wherein the outer surface is rougher than the inner surface,
wherein the outer surface of the flexible membrane includes features to increase its friction coefficient and wherein the features are selected from grooves and vias.

18 - 24. Cancelled.